	50IL5 LEGEND	
50IL	NAME	CLA55
ChC2	CHESTER SILT LOAM, Ø TO 15 PERCENT SLOPES, MODERATELY ERODED	В
GIB2	GLENELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	В
GIC2	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	: B
MIB2	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	В
MIC2	MANOR LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	В
MIC3	MANOR LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED	В
Мо	MIXED ALLUMAL LAND	Q
Mt02	MT. AIRY CHANNERY LOAM, 15 TO 25 PERCENT SLOPES, MODERATELY ERODED	A

* HYDRIC SOILS AND/OR CONTAINS HYDRIC INCLUSIONS ** MAY CONTAIN HYDRIC INCLUSIONS

† GENERALLY ONLY WITHIN 100-YEAR FLOODPLAIN AREAS

ADD	ress chart
LOT NUMBER	STREET ADDRESS
29	8615 WELLFORD DRIVE
30	8619 WELLFORD DRIVE
31	8623 WELLFORD DRIVE
32	8627 WELLFORD DRIVE
33	8633 WELLFORD DRIVE
:34	8637 WELLFORD DRIVE
35	8641 WELLFORD DRIVE
36	8645 WELLFORD DRIVE
37	8649 WELLFORD DRIVE
38	8653 WELLFORD DRIVE
39	8659 WELLFORD DRIVE
40	8663 WELLFORD DRIVE
41	8667 WELLFORD DRIVE
70	8668 WELLFORD DRIVE
71	8762 WELLFORD DRIVE
72	8658 WELLFORD DRIVE
73	8654 WELLFORD DRIVE
74	8646 WELLFORD DRIVE
75	8638 WELLFORD DRIVE
76	0630 WELLFORD DRIVE
77	8618 WELLFORD DRIVE
78	8614 WELLFORD DRIVE
79	8610 WELLFORD DRIVE

	STORMWATER MANAGEMENT PRACTICES									
LOT NO.	STREET ADDRESS	DISCONNECTION OF ROOFTOP RUNOFF N-1 (Y/N)	DISCONNECTION OF NON-ROOFFOR N-2 (Y/N)	DRY WELLS M-5 (Y/N)	MICRO BIO-RETENTION M-6 (Y/N)	BIO-RETENTION F-6 (Y/N)	Grass swale M-8 (NUMBER)			
29	0615 WELLFORD DRIVE			Y	Y (PROVIDED BY F-14-081)					
30	0619 WELLFORD DRIVE			Y	Y (PROVIDED BY F-14-081)					
31	0623 WELLFORD DRIVE		,	Y	Y (PROVIDED BY F-14-081)					
32	8627 WELLFORD DRIVE			Υ	Y (PROVIDED BY F-14-081)					
33	8633 WELLFORD DRIVE				Y (PROVIDED BY F-14-001)					
34	8637 WELLFORD DRIVE			Υ	Y (PROVIDED BY F-14-081)					
35	8641 WELLFORD DRIVE	<u> </u>		Υ :	Y (PROVIDED BY F-14-081)					
36	8645 WELLFORD DRIVE			ΥΥ	Y (PROVIDED BY F-14-001)					
37	8649 WELLFORD DRIVE	·		Y	Y (PROVIDED BY F-14-001)					
38	8653 WELLFORD DRIVE			Y	Y (PROVIDED BY F-14-001)	,				
39	8659 WELLFORD DRIVE			. Y	Y (PROVIDED BY F-14-081)					
40	0663 WELLFORD DRIVE			ΥΥ	Y (PROVIDED BY F-14-001)					
41	8667 WELLFORD DRIVE		· · · · · · · · · · · · · · · · · · ·	Υ.	Y (PROVIDED BY F-14-001)					
70	8668 WELLFORD DRIVE				Y (PROVIDED BY F-14-081)					
71	8672 WELLFORD DRIVE		· · · · · · · · · · · · · · · · · · ·		Y (PROVIDED BY F-14-081)					
72	8658 WELLFORD DRIVE		· · · · · · · · · · · · · · · · · · ·		Y (PROVIDED BY F-14-001)					
73	8654 WELLFORD DRIVE				Y (PROVIDED BY F-14-001)					
74	0646 WELLFORD DRIVE				Y (PROVIDED BY F-14-081)	,	4			
75	8638 WELLFORD DRIVE			Y	Y (PROVIDED BY F-14-081)					
76	8630 WELLFORD DRIVE		<u> </u>	Υ	Y (PROVIDED BY F-14-081)					
77	0610 WELLFORD DRIVE		<u> </u>	Y	Y (PROVIDED BY F-14-001)					
78	8614 WELLFORD DRIVE			Y	Y (PROVIDED BY F-14-081)					
79	8610 WELLFORD DRIVE	<u> </u>		Υ	Y (PROVIDED BY F-14-081)	'				

REVISION

	LEGEND
SYMBOL	DESCRIPTION
	EXISTING CONTOUR 2' INTERVAL
	PROPOSED CONTOUR 2' INTERVAL
×362.2	SPOT ELEVATION
₩OB\$	PROPOSED WALKOUT
	FOREST CONSERVATION EASEMENT
55F55F	SUPER SILT FENCE
ECM	EROSION CONTROL MATTING
LOD	LIMIT OF DISTURBANCE
	EXISTING STREET TREE TAKEN FROM F-14-02

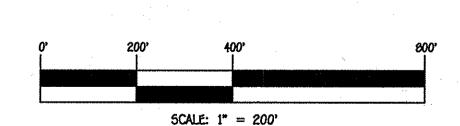
	SHEET INDEX								
SHEET	DESCRIPTION								
SHEET 1	TITLE SHEET, GENERAL NOTES, LEGEND, SOILS LEGEND, ADDRESS CHART, SHEET INDEX								
SHEET 2	HOUSE TYPES & GENERIC BOXES								
SHEET 3	SITE DEVELOPMENT PLAN, LOTS 29 THRU 35 & 75 THRU 79								
SHEET 4	SITE DEVELOPMENT PLAN, LOTS 36 THRU 41 & 70 THRU 74, STORMWATER MANAGEMENT DETAILS & NOTES								
SHEET 5	SEDIMENT/EROSION CONTROL PLAN, LOTS 29 THRU 35 & 75 THRU 79								
SHEET 6	SEDIMENT/EROSION CONTROL PLAN, LOTS 36 THRU 41 & 70 THRU 74								
GUSST 7	GENERAL GOOGION CONTON OCTUBE A MOTES								

SHEET 7 SEDIMENT/EROSION CONTROL DETAILS & NOTES

HOWARD COUNTY, MARYLAND DEPARTMENT OF RECREATION AND PARKS LIBER 885, FOLIO 78 TAX MAP 30, PARCEL 10 ZONEO R-20 OPEN SPACE OPEN SPACE OPEN SPACE OPEN SPACE LOT 93 LOT 94 OPEN SPACE LOT 86 HOWARD COUNTY OPEN SPACE OPEN SPACE OPEN SPACE/ OPEN SPACE HOWARD COUNTY OPEN SPACE OPEN SPACE OPEN SPACE LOT 107 HOWARD COUNTY, MARYLAND HOWARD COUNTY OPEN SPACE DEPARTMENT OF RECREATION AND PARKS LIBER 549, FOLIO 607 TAX MAP 30, PART OF PARCEL 10 ZONED R-20 SITE ANALYSIS DATA CHART A. TOTAL AREA OF THIS SUBMISSION (LOT5 29-41, 70-79) = 4.05 AC.*.B. LIMIT OF DISTURBED AREA = 4.24 AC. + C. PRESENT ZONING DESIGNATION = R-20D. PROPOSED USE: SINGLE FAMILY DETACHED E. FLOOR SPACE ON EACH LEVEL OF BUILDING: N/A . TOTAL NUMBER OF UNITS : 23 UNIT G. TOTAL NUMBER OF PARKING SPACES REQUIRED = 50 SPACES 2.5 X 23 LOTS = 50 SPACES H. TOTAL NUMBER OF PARKING SPACES PROVIDED = 92 SPACES

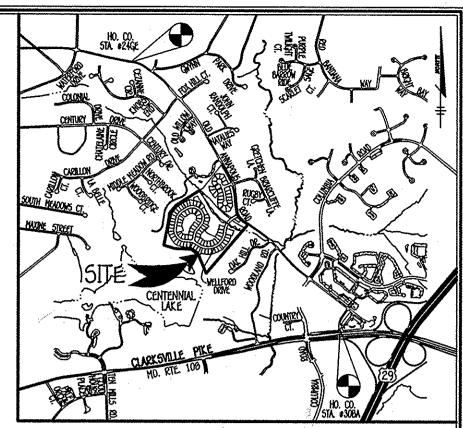


5CALE: I' = 200'



T.P. 24GE ELEV 446.44 N. 578,706.500 E. 1,352,699,713 LOC. NEAR INTERSECTION OF OLD ANNAPOLIS ROAD & GYWNN PARK DRIVE

T.P. 308A ELEV. 397.14 N. 573,149.094 E. 1,357,083:174 LOC. NEAR INTERSECTION OF COLUMBIA ROAD & MD. RTE. 108



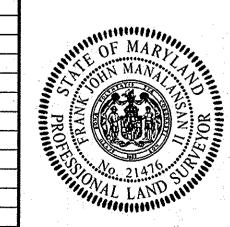
VICINITY MAP 5CALE: 1" = 2000"

HO. CO. ADC MAP NO. 11, H-13 & J-13

GENERAL NOTES:

- SUBJECT PROPERTY ZONED R-20 PER 10/06/13 COMPREHENSIVE ZONING PLAN. 2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5)
- WORKING DAYS PRIOR TO THE START OF WORK. 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY
- 4. THIS PLAN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED BY FISHER, COLLINS &
- CARTER, INC. ON JANUARY, 2012
- 5. TOPOGRAPHY SHOWN IS BASED ON FINAL ROAD CONSTRUCTION, GRADING AND STORMWATER MANAGEMENT PLANS
- 6. HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED
- BY HOWARD COUNTY GEODETIC CONTROL STATIONS. HOWARD COUNTY MONUMENT 24GE N 578,706.500, E 1,352,699.713 ELEVATION 446.44
- HOWARD COUNTY MONUMENT 30BA N 573,149.094, E 1,357,083.174 ELEVATION 397.14 7. IN ACCORDANCE WITH SECTION 128.0.A.1. OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS. PORCHES, OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- 8. DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO NAD '83 GRID MEASUREMENT. 9. THERE ARE NO EXISTING DWELLING/STRUCTURE(5) LOCATED ON THIS SITE TO REMAIN.
- 10. NO CEMETERIES EXIST ON THIS SITE BASED ON BOTH A SITE VISIT AND AN EXAMINATION OF THE HOWARD COUNTY
- 11. PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NOS.: ECP-12-053, WP-13-096, SP-13-004, PB-399,
- AND F-14-001, F-14-00151, F-14-00152, F-14-00153 AND CONTRACT NO. 24-4764-D. 12. PROPERTY IS LOCATED IN METROPOLITAN DISTRICT AND IS SERVED BY PUBLIC WATER AND PUBLIC SEWER
- (CONTRACT NO. 24-4763-D) 13. IN ACCORDANCE WITH SECTION 124 OF THE LANDSCAPE MANUAL, PERIMETER LANDSCAPING IN PERIMETER NOS. 4,
- 5, PART OF 6 AND SWM FACILITY ESD NO. 2 ON OPEN SPACE LOT 110 SHALL BE AS SHOWN ON THE LANDSCAPE PLAN SHEET OF THE FINAL ROAD CONSTRUCTION DRAWINGS FOR F-14-001. SURETY POSTED WITH THE DEVELOPERS AGREEMENT FOR F-14-081.
- 14. THE FOREST CONSERVATION REQUIREMENTS FOR THIS PROJECT WERE PREVIOUSLY ADDRESSED UNDER F-14-002. BY PROVIDING 3.82 ACRES OF ON-SITE RETENTION, 5.14 ACRES OF ON-SITE REFORESTATION AND 0.14 ACRES OF ON-SITE AFFORESTATION. SURETY WAS POSTED WITH DEVELOPERS AGREEMENT FOR F-14-002.
- 15. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(5), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- 16. THIS PLAN WAS PRESENTED TO THE HISTORIC DISTRICT COMMISSION ON JUNE 7, 2012 FOR ADVISORY COMMENTS. 17. STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE 2010 MDE, CHAPTER 5 REGULATIONS AND THE LATEST HOWARD COUNTY DESIGN MANUAL, VOL. I, CHAPTER 5 ADOPTED ON OR AROUND MAY 4, 2010 THROUGH THE USE OF DRYWELLS (M-5). DRYWELLS WILL BE OWNED AND MAINTAINED BY THE LOT OWNER WHICH THAT ANY PARTICULAR DRYWELL IS LOCATED. ADDITIONAL SWM FACILITIES HAVE BEEN PREVIOUSLY PROVIDED BY F-14-002.
- THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. DATED AUGUST 2012 AND WAS APPROVED ON MARCH 14, 2013 19. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY TRAFFIC GROUP, INC. DATED JANUARY 2012 AND WAS
- AND APPROVED MARCH 14, 2013. 20. THERE IS NO FLOODPLAIN WITHIN THE LIMITS OF THIS SITE DEVELOPMENT PLAN.
- 21. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.
- 22. THERE ARE NO AREAS OF STEEP SLOPES LOCATED ON THIS PROPERTY AS DEFINED BY THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.116.B.
- 23. FOREST STAND DELINEATION AND WETLAND DELINEATION FOR THIS PROJECT WAS PREPARED BY MCCARTHY &
- ASSOCIATES, INC. DATED MARCH 2012. 24. THE FLOODPLAIN STUDY SHOWN HEREON WAS PREPARED BY FISHER, COLLINS & CARTER, INC., DATED MARCH 2012
- AND WAS APPROVED ON MARCH 14, 2013. 25. THE LOTS CREATED BY THIS SUBDIMISION PLAN AREA IS SUBJECT TO A FEE OR ASSESSMENT TO COVER OR DEFRAY ALL OR PART OF THE DEVELOPER'S COST OF THE INSTALLATION OF THE WATER AND SEWER FACILITIES,
- PURSUANT TO THE HOWARD COUNTY CODE SECTION 18.112. THIS FEE OR ASSESSMENT, WHICH RUNS WITH THE LAND, IS A CONTRACTUAL OBLIGATION BETWEEN THE DEVELOPER AND EACH OWNER OF THIS PROPERTY AND IS NOT IN ANY WAY A FEE OR ASSESSMENT OF HOWARD COUNTY. 26. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS
- TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: A. WIDTH-12' (16' SERVING MORE THAN ONE RESIDENCE);
 - B. 5URFACE-6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2"MIN.);
- C. GEOMETRY-MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS; D. STRUCTURES (CULVERTS/BRIDGES)-CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING);
- E. DRAINAGE ELEMENTS-CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT
- DEPTH OVER DRIVEWAY SURFACE;
- F. STRUCTURE CLEARANCES MINIMUM 12 FEET; G. MAINTENANCE-SUFFICIENT TO INSURE ALL WEATHER USE.
- 27. RESIDENTIAL SINGLE FAMILY DETACHED SERVICE CONNECTIONS:
- A. WHC: 1 1 W/ 1" OUTSIDE METER SETTING
- B. 5HC: 4" PVC 28. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE. 29. SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- 30. FOR DRIVEWAY ENTRANCE DETAILS REFER THE THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL
- 31. THIS R-20 ZONED SUBDIVISION IS BEING DEVELOPED PURSUANT TO SECTION 107.0.D OF THE R-ED ZONING DISTRICT REGULATIONS AND CRITERIA PER SECTION 108.0.G.3 OF THE ZONING REGULATIONS.
- 32. SUBJECT PROPERTY ZONED R-20, USING THE R-ED REGULATIONS. THIS PROPERTY IS SUBJECT TO COUNCIL BILL NO. 2, "SECTION 128.0.A.1.j. OF THE ZONING REGULATIONS (CB-2-2012) WHICH ALLOWS SUNROOMS AND ROOM EXTENSIONS NOT MORE THAN 10 FEET INTO THE REAR SETBACK ALONG NOT MORE THAN 60% OF THE REAR FACE OF THE DWELLING ON A LOT WHICH ADJOINS OPEN SPACE ALONG A MAJORITY OF THE REAR LOT LINE FOR R-ED
- LOTS RECORDED AFTER THE EFFECTIVE DATE OF 5/13/12." 34. CENTENNIAL LAKE OVERLOOK HOMEOWNERS ASSOCIATION, INC. AMENDED AND RESTATED DECLARATION OF COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS IS RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY MARYLAND,
- IN LIBER 15901 AT FOILIO 223. FIRST SUPPLEMENT DECLARATION TO THE CENTENNIAL LAKE OVERLOOK HOMEOWNERS ASSOCIATION, INC. IS RECORDED IN LIBER AT FOLIO 35. THIS PLAN IS IN CONFORMANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYORS



DATE

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF

MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/15.

OWNER/DEVELOPER BEAZER HOMES, CORP. 8965 GUILFORD ROAD **SUITE 209** COLUMBIA, MARYLAND 21046

410-720-5071

ATTN: BRIAN KNAUFF

APPROVED: I	HOWARD CO	DUNTY D	EPARTME	NT	OF PLANN	ING AND	ZONIN	IG		
Chief, Division	on of Land	O Develop	ment		·			5-19-15 Date		
Chil Ed	Mo	•					5	5.14.15		
Chief, Develo	•					4		Dațe		
hereh picyelle								\$/21/15		
Director - Department of Planning and Zoning							Dáte			
PROJECT			SECTION			LOTS NO.				
CENTENNIAL	LAKE OVER	RLOOK	,		Tγ	<i>1</i> 0	2	9 THRU 41 & 70 THRU 79		
PLAT	BLOCK N	10.	ZONE	T/	X/ZONE	ELEC. D	IST.	CENSUS TR.		
23291-23298	2	f	2-20		30	SECON	D	6023.04		
WATER CODE				SEW	ER CODE	<u>.</u>				

7640000

(EACH LOT HAS 2 SPACES IN DRIVEWAY AND A 2 CAR GARAGE)

K. TOTAL AREA OF FLOODPLAIN WITHIN SUBDIVISION LIMITS: 0.00 AC.

OPEN SPACE WITHIN SUBDIVISION LIMITS SITE = 0.00 AC.

BUILDING COVERAGE OF SITE:

M. AREA OF WETLANDS = 0.00 AC. ±

N. AREA OF FOREST = 0.00 AC.±

O. IMPERVIOUS AREA = 1.62 AC.±

L TOTAL AREA OF SLOPES IN EXCESS OF 25%

WITHIN SUBDIVISION LIMITS = 0.000 AC+

E-15

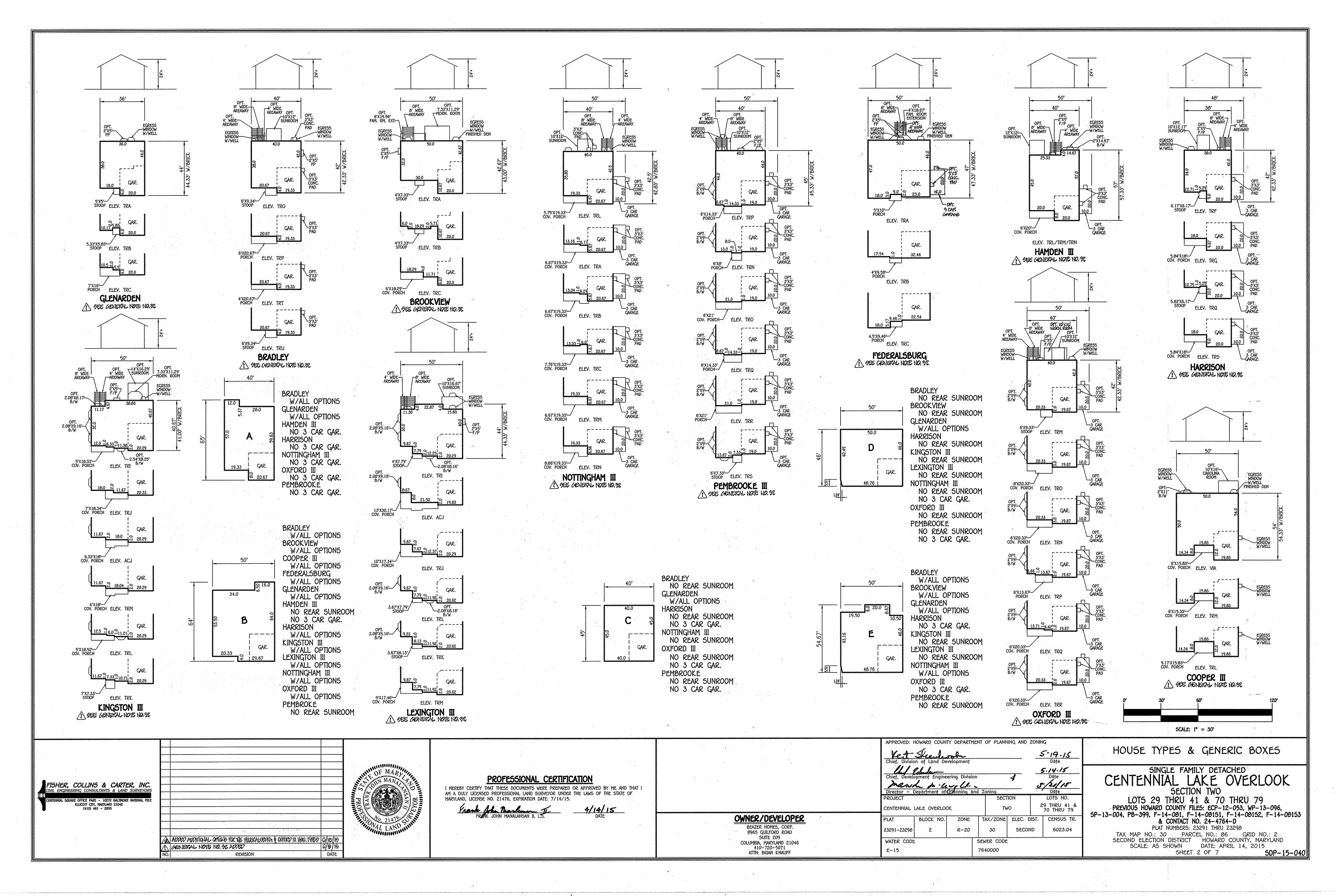
TITLE SHEET

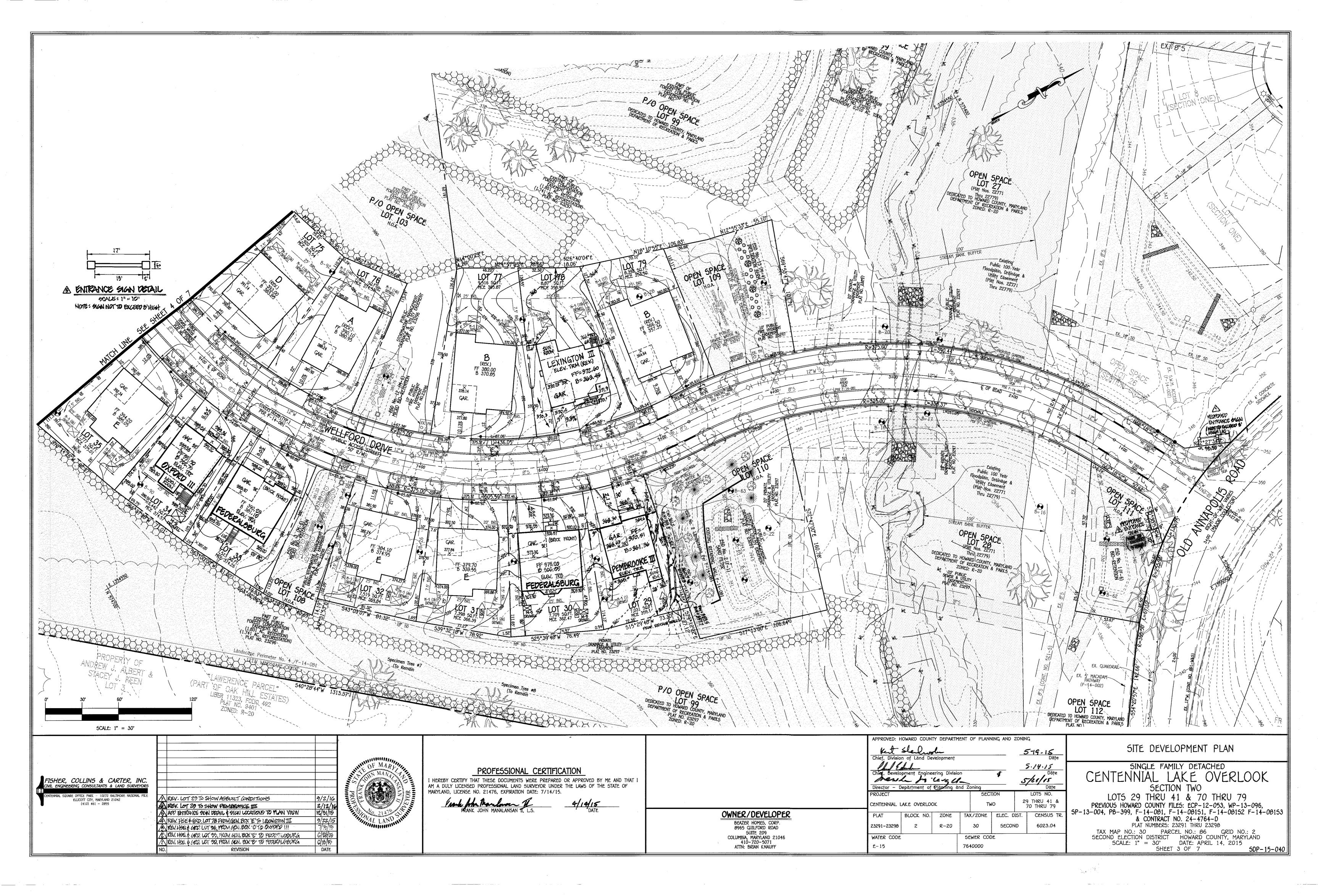
SINGLE FAMILY DETACHED
CENTENNIAL LAKE OVERLOOK

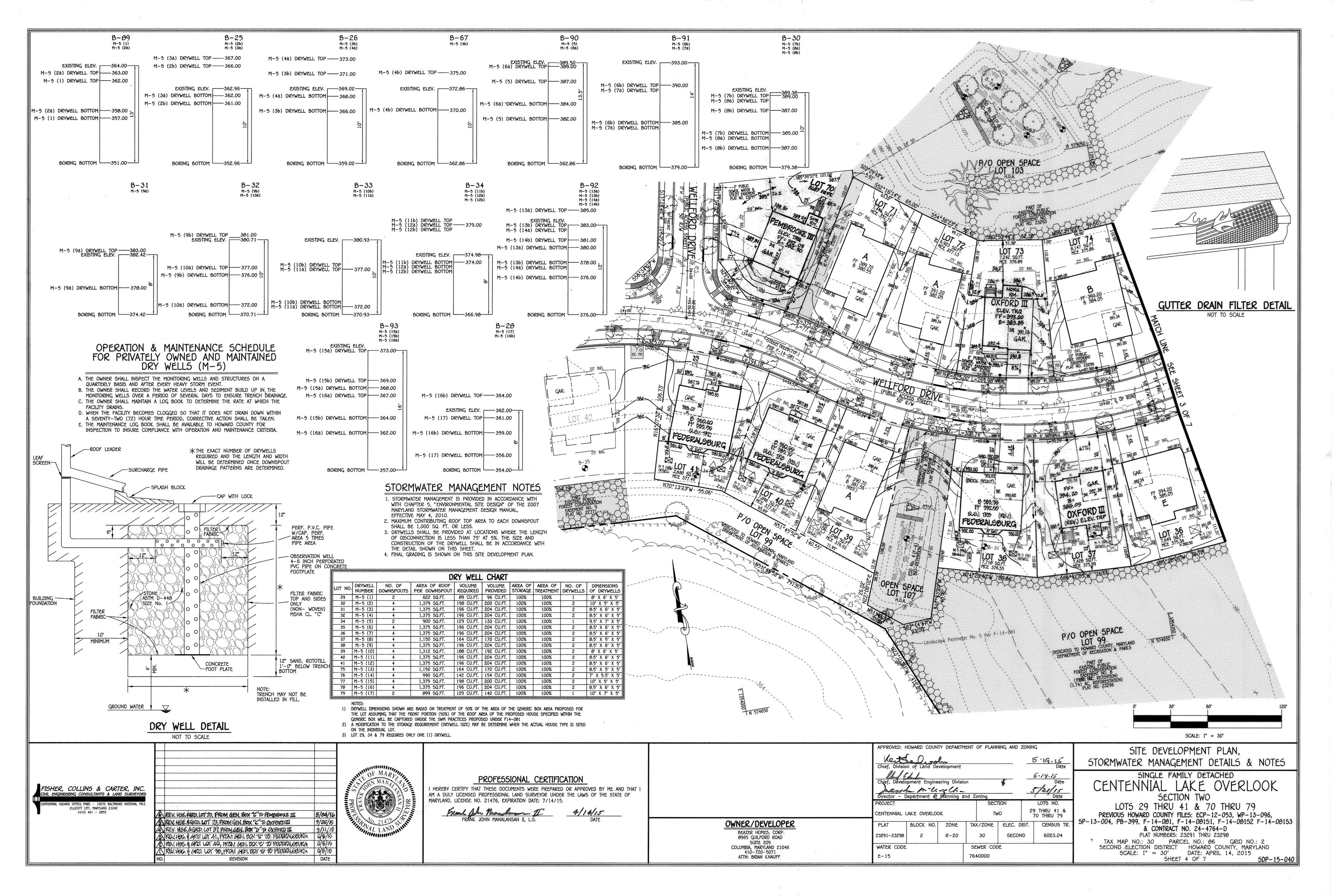
SECTION TWO LOTS 29 THRU 41 & 70 THRU 79 PREVIOUS HOWARD COUNTY FILES: ECP-12-053, WP-13-096.

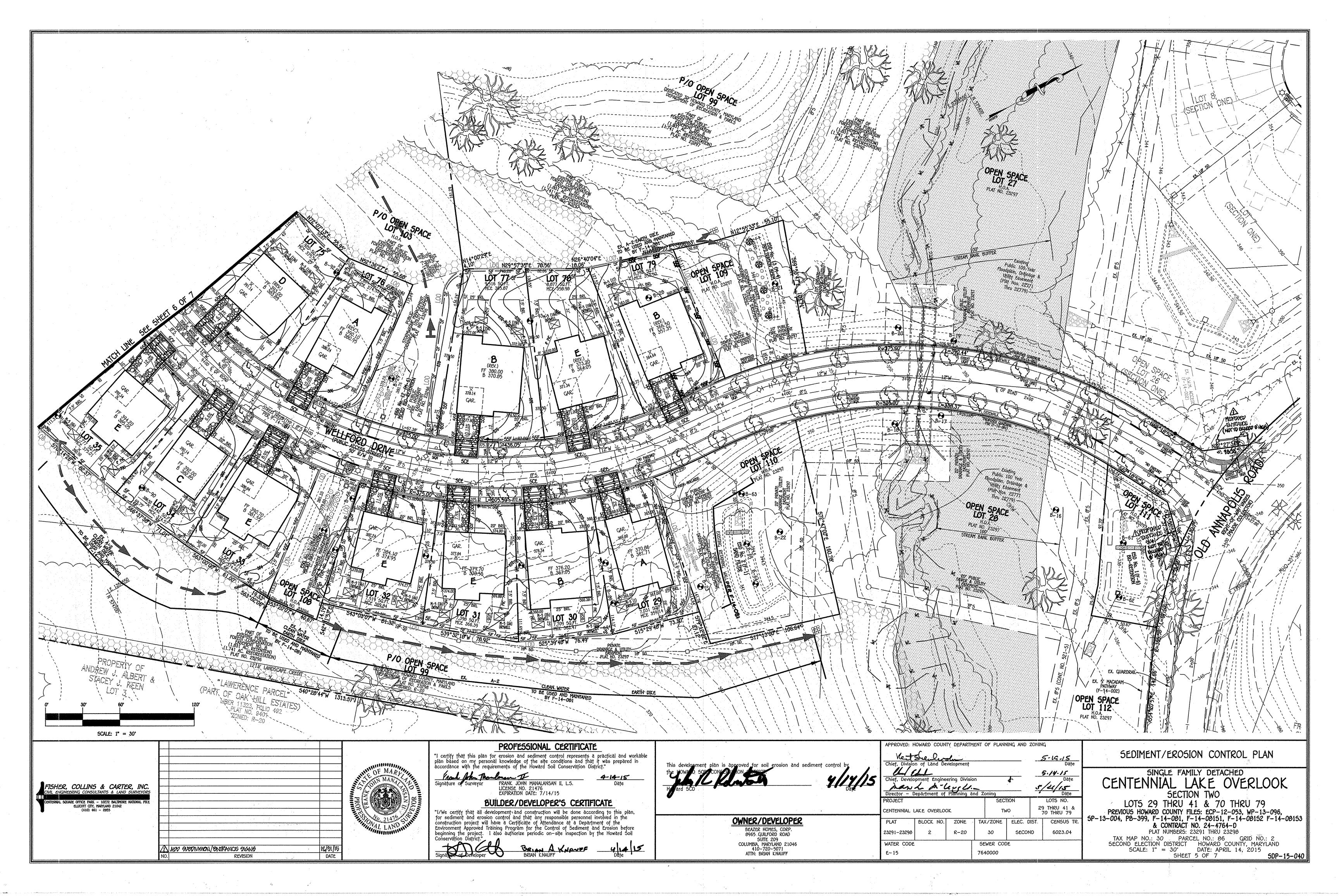
5P-13-004, PB-399, F-14-001, F-14-00151, F-14-00152, F-14-00153 & CONTACT NO. 24-4764-D PLAT NUMBERS: 23291 THRU 23298 TAX MAP NO.: 30 PARCEL NO.: 86 GRID NO.: 2

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL 14, 2015 SHEET 1 OF 7











FISHER, COLLINS & CARTER, INC.

DATE

REVISION

BUILDER/DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Rew A. Walls

Signature of Developer

BRIAN KNAUFF

Date

WATER CODE E-15

OWNER/DEVELOPER

BEAZER HOMES, CORP. 8965 GUILFORD ROAD SUITE 209 COLUMBIA, MARYLAND 21046 410-720-5071 ATTN: BRIAN KNAUFF

LOTS NO. 29 THRU 41 & 70 THRU 79 CENTENNIAL LAKE OVERLOOK BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. 23291-23298 R-20 **SECOND** SEWER CODE

7640000

SEDIMENT/EROSION CONTROL PLAN

SINGLE FAMILY DETACHED

CENTENNIAL LAKE OVERLOOK

SECTION TWO

LOTS 29 THRU 41 & 70 THRU 79

PREVIOUS HOWARD COUNTY FILES: ECP-12-053, WP-13-096,
SP-13-004, PB-399, F-14-001, F-14-00151, F-14-00152 F-14-00153

& CONTRACT NO. 24-4764-D

PLAT NUMBERS: 23291 THRU 23290

TAX MAP NO.: 30 PARCEL NO.: 96 GRID NO.: 2

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' DATE: APRIL 14, 2015

SHEET 6 OF 7 50P-1 50P-15-040

50IL PREPARATION, TOP50ILING AND 50IL AMENDMENTS (B-4-2)

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION A SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE ACRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEI TO THE CONTOUR OF THE SLOPE.

B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. 2. PERMANENT STABILIZATION A A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS

I SOIL PH BETWEEN 6.0 AND 7.0. I. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).

REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE

III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE

N. SOIL CONTAINS 1:5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.

B. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS. C. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN. THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES. D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST E. MIX SOIL AMENOMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRACGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN T SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE, LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE

UNNECESSARY ON NEWLY DISTURBED AREAS. B. TOPSOILING

ACTIVE GRADING.

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT. LOW NUTRIENT LEVELS. LOW PH. MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION. 2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND

3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: A THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH. B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.

IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.

C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH. D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN. 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA: A TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN ACRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH,

OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER. B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON MY, THISTLE, OR OTHERS AS SPECIFIED. C. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED ACRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL

6. TOPSOIL APPLICATION A. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL 8. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. C. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED

C. SOIL AMENDMENTS (FERTILIZER & LIME SPECIFICATIONS) 1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTH TIPE ON SITES HAVING DISTRIPARD AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO

BE USED FOR CHEMICAL ANALYSES. 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME. TRADE NAME O TRADEMARK AND WARRANTY OF THE PRODUCER.

3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 90 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY

DISKING OR OTHER SUITABLE MEANS. 5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS. SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1.000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE A.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1). B.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER

DUST CONTROL

DEFINITION CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

<u>PURPOSE</u> TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE

DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY. CONDITIONS WHERE PRACTICE APPLIES

THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

TEMPORARY METHODS 1. MUICHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING. 2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER. 3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE

PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT

WHICH MAY PRODUCE THE DESIRED EFFECT. 4. IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST, REPEAT AS NEEDED, AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT

RUNOFF BEGINS TO FLOW. 5. BARRIERS - SOLID BOARD FENCES SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE DIKES AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CONTROLLING SOIL BLOWING. CURRENTS AND SOIL BLOWING. CURRENTS AND SOIL BLOWING, BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS

OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN

6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT. PERMANENT METHODS . PERMENENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. 2. TOPSOILING - COVERING WITH LESS EROSIVE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.

3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

SEQUENCE OF CONSTRUCTION 1. OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. (7 DAYS) 2. NOTIFY "MISS LITHITY" AT LEAST 40 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777 NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/ INSPECTION AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK. 3. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND SUPER-SILT FENCE. (3 DAY5) (4 MONTH5) . ROUGH GRADE AROUND HOUSE SITE AND INSTALL TEMPORARY SEEDING, IF REQUIRED. 5. CONSTRUCT BUILDING.
6. FINE GRADE SITE AND INSTALL PERMANENT SEEDING.
7. ALL FINAL GRADES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF CONTROLS.
WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH

THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED. NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH RAINFALL AND ON A DAILY BASIS.

TEMPORARY SEEDING NOTES (B-4-4)

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS. PURPOSE TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRE CRITERIA

1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORAR seeding summary below along with application rates, seeding dates and seeding depth f this summary is not put on the plan and completed, then table 8.1 plus fertilized AND LIME RATES MUST BE PUT ON THE PLAN. 2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE

TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.

3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.8 AND MAINTAIN UNTIL THE NEXT SEEDING SEASON. TEMPODADY SEEDING SHMMADY

iardiness Eed Mixtu	ZONE (FROM FIGURE RE (FROM TABLE 8.1	ng som	FERTILIZER RATE (10-20-20)	LIME RATE	
5PECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		
BARLEY	96		i	136 19 (46	2 TONS/AC
OATS	72	3/1 - 5/15, 8/15 - 10/15	î*	436 LB/AC (10 LB/ 1000 SF)	(90 LB/ 1000 SF)
RYE	112		i*	1000 31)	1000 01)

PERMANENT SEEDING NOTES (B-4-5)

A. SEED MIXTURES

A SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE 8.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE 8.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.

B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING. . FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to THE SOIL AMENOMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY. 2. TURFGRASS MIXTURES

A AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE, ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET.

CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

II. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BILIEGRASS SEFONG RATE: 2 POLINOS MIXTURE PER 1000 SQUARE FEET, CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. II. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR
FOR AREAS RECEMING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET.

one or more cultivars may be blended. In. Kentucky bluegrass/fine fescue: Shade mixture: for use in areas with shade in bluegrass LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEET.

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO \$77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE C. IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 58, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B) SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)

D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES,

LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF COASSES WILL POSE NO DIFFICULTY E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. his is especially true when seedings are made late in the planting season, in abnormally dry HOT SEASONS, OR ON ADVERSE SITES

DEOMANENT SEEDING SUMMAOV

		one (from Figure 12 (from Table 8.:		FERTILIZE	LIME RATE			
NO.	SPECIES	application rate (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P ₂ 0 ₅	K ₂ 0	
8	TALL FESCUE	100	HAR. 1-MAY 15 AUG. 15-OCT, 15	1/4-1/2 IN.	45 LBS. PER ACRE (1.0 LB/ 1000 SF)	90 LB/AC (2 LB/ 1000 5F)	90 LB/AC (2 LB/ 1000 SF)	2 TONS/AC (90 LB/ 1000 SF)

B. 50D: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

. GENERAL SPECIFICATIONS A CLASS OF TURFORASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR. B. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS TO 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF cutting, measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be acceptable C. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. D. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OF WET) MAY adversely affect its survival. e, 500 must be harvested, delivered, and installed within a period of 36 hours. Soo not transplanted

2. SOD INSTALLATION A DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD. B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY wedged against each other. Stagger lateral joints to promote more uniform growth and strength. ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots. C. WHEREVER POSSIBLE, LAY 50D WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SUPPAGE ON SLOPES. ENSURE SOLID CONTACT

WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

exists between 500 roots and the underlying soil surface. D. WATER THE SOO IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING, AND irricating for any piece of 500 within eight hours. A IN THE ASSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY

as necessary to maintain moist soil to a depth of 4 inches. Water 500 during the heat of the day to B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT. c. do not mow until the 500 is firmly rooted. No more than 1/3 of the grass leaf must be removed by THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS

B-4-3 STANDARDS AND SPECIFICATIONS SEEDING AND MULCHING

Definition

The application of seed and mulch to establish vegetative cover.

To protect disturbed soils from erosion during and at the end of construction. Conditions Where Practice Applies

To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

a. All seed must meet the requirement of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table 8.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify typ of seed and seeding rate. b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.

Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keetp inoculant as cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used

for weedcontrol until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic

a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. i. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table 8.1. Permanent Seeding Table 8.3, or site-specific seeding summaries.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.

i. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting.

ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each

Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer) i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P. O. (phosphorus), 200 pounds per acre; K2O (potassium), 200 pounds per acre. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or

Mix seed and fertilizer on site and seed immediately and without interruption. iv. When hydroseeding do not incorporate seed into the soil.

uniform fibrous physical state.

a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty. Note: Use only sterile straw mulch in areas where one species of grass is desired. b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into

> WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate colot to facilitate visual inspection of the uniformly spread slurry. WCFM, including dye, must contain no germination or growth inhibiting factors. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, tertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the growth of the grass seedlings.

iv. WCFM material must not contain elements or compounds at concentration levels that wi v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter approximately 1 millimeter, pH range of 4.0 to 8.5. ash content of 1.6 percent maximum and water holding capacity of 90 percent minimum.

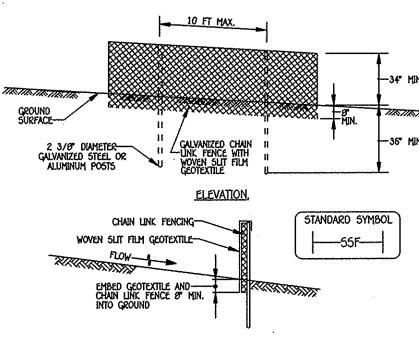
a. Apply mulch to all seeded areas immediately after seeding. b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of 1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre. c. Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per

acre. Mix the wood cellulose tiber with water to attain a mixture with a maximum of 50 pound of wood cellulose fiber per 100 gallons of water. a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or

water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard: i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a

naximum of 50 pounds of wood cellulose fiber per 100 gallons of water. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited

iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer ecommendations. Netting is usually available in rolls 4-15 feet wide and 300 to 3,000



CROSS SECTION CONSTRUCTION SPECIFICATIONS 1. INSTALL 2 3/8" DIAMETER CALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART, DRIVE THE POSTS A MINIMUM OF 36" INTO THE 2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 3/8" MAXIMUM OPENING) 42" IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

3. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8" INTO THE GROUND. 4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6", FOLDED AND STAPLED TO PREVENT SEDIMENT BY PASS. 5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS 6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. 7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

> SUPER SILT FENCE NOT TO SCALE

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855). 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED

WITHIN: a) 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 8-4-5), TEMPORARY SEEDING (SEC. 8-4-4) AND MULCHING (SEC. 8-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. 5) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.

TOTAL AREA OF SITE AREA TO BE ROOFED OR PAVED 1.62 ACRES 2.62 ACRES AREA TO BE VEGETATIVELY STABILIZED 3.869 CU.Y05 1,965 CU.YDS.

OFFSITE WASTE/BORROW AREA LOCATION 7) ANY SEDIMENT CONTROL PRACTICE THAT IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. 3) ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 9) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH ISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

(0) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER. 11) ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION 12) a project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 acre pei

GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED area in the proceeding grading unit has been stabilized and approved by the enforcement authority. Unless OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

<u>DEFINITION</u> A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.

PURPOSE TO PROMDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR erosion. Sedimentation and changes to drainage patterns CONDITIONS WHERE PRACTICE APPLIES STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

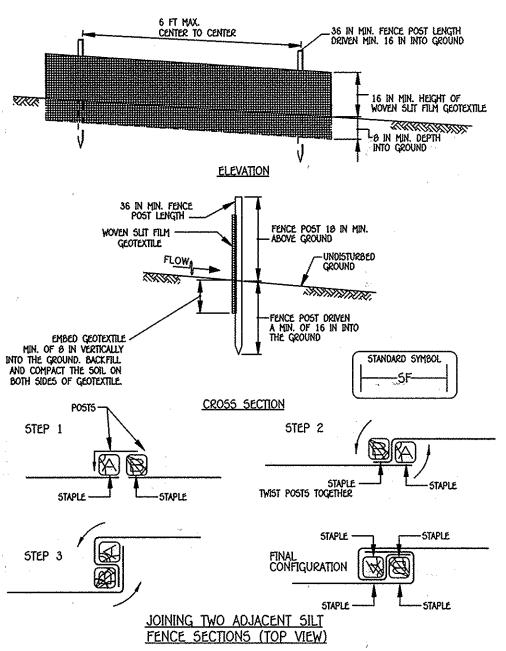
CRITERIA 1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. 2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1 BENCHING MUST BE PROVIDED IN ACCORDANCE WITH

SECTION B-3 LAND GRADING. 3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE. 4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. 5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIMERSION FENCE, PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.

PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE. 7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD 8-4-1 INCREMENTAL STABILIZATION AND STANDARD 8-4-4 TEMPORARY STABILIZATION. 8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL

<u>MAINTENANCE</u> THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION 8-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER THAN A 2:1 RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, OR 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.



CONSTRUCTION SPECIFICATIONS 1. USE WOOD POSTS 1 3/4" X 1 3/4" ±/16" (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS

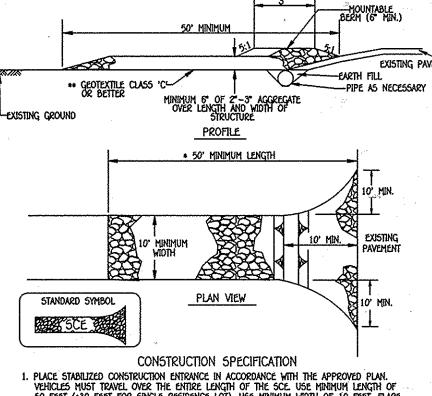
THAN I POUND PER LINEAR FOOT.

2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART. 3. USE WOVEN SUT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT NUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1-MATERIALS. 5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL

6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH 7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE. 8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

ON BOTH SIDES OF FABRIC.

SILT FENCE



VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET, FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS

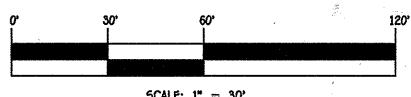
OCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1

MATERIALS.

4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

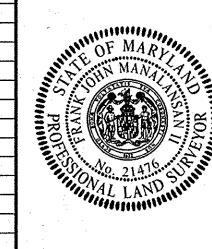
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS, IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCORDING AND/OR SURFEDING. MASHING POLITY OF PROOF MILD TRACKED ONTO. SCRAPING AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO.
PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED
SEDIMENT CONTROL PRACTICE.

STABILIZED CONSTRUCTION ENTRANCE



5CALE: 1" = 30"

FISHER, COLLINS & CARTER, INC. . ENGINEERING CONSULTANTS & LAND SURVEYORS (410) 461 - 2055



DATE

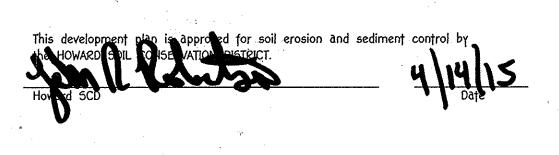
REVISIO

PROFESSIONAL CERTIFICATE "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Frank John Thankaram I 4/14/15 FRANK JOHN MANALANSAN II, L.S. Signature 🏈 Surveyor 👚 LICENSE NO. 21476 EXPIRATION DATE: 7/14/15

BUILDER/DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil

Conservation District



of the tr

OWNER/DEVELOPER BEAZER HOMES, CORP 8965 GUILFORD ROAD SUITE 209 COLUMBIA, MARYLAND 21046 410-720-5071 ATTN: BRIAN KNAUFF

PPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 5-19-15 Division of Land Developmen Chief, Development Engineering Division 5/21/15 Director - Department of Planning and Zoning PROJECT 29 THRU 41 & CENTENNIAL LAKE OVERLOOK 70 THRU 79 CENSUS TR. BLOCK NO. ZONE TAX/ZONE | ELEC. DIST. 23291-23298 R-20 30 SECOND 6023.04 WATER CODE SEWER CODE 7640000 E-15

SEDIMENT/EROSION CONTROL DETAILS & NOTES

SINGLE FAMILY DETACHED CENTENNIAL LAKE OVERLOOK SECTION TWO

LOTS 29 THRU 41 & 70 THRU 79 PREVIOUS HOWARD COUNTY FILES: ECP-12-053, WP-13-096. 5P-13-004, PB-399, F-14-001, F-14-00151, F-14-00152, F-14-00153 & CONTACT NO. 24-4764-D PLAT NUMBERS: 23291 THRU 23298

TAX MAP NO.: 30 PARCEL NO.: 86 GRID NO.: 2 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: APRIL 14, 2015 SHEET 7 OF 7